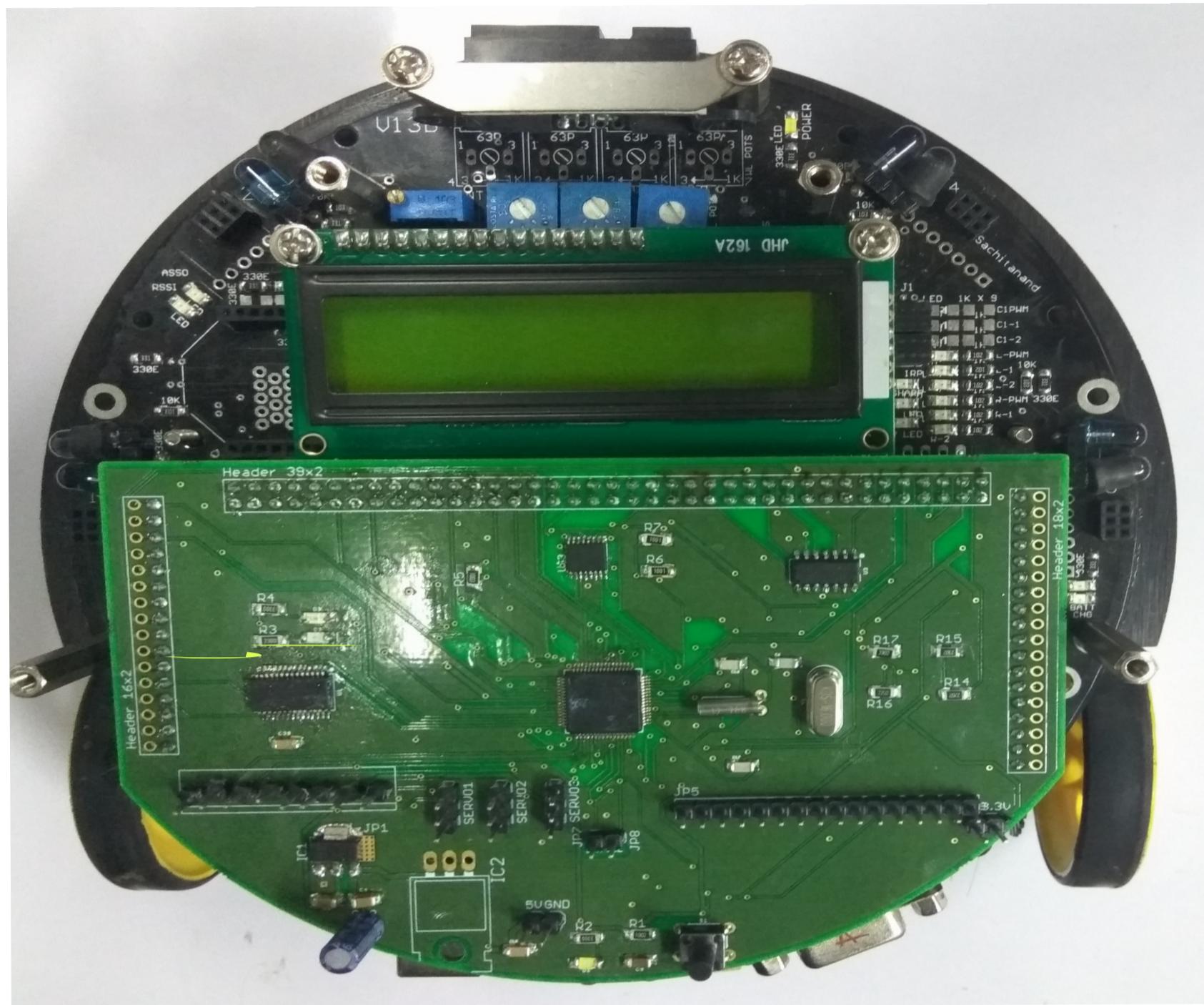


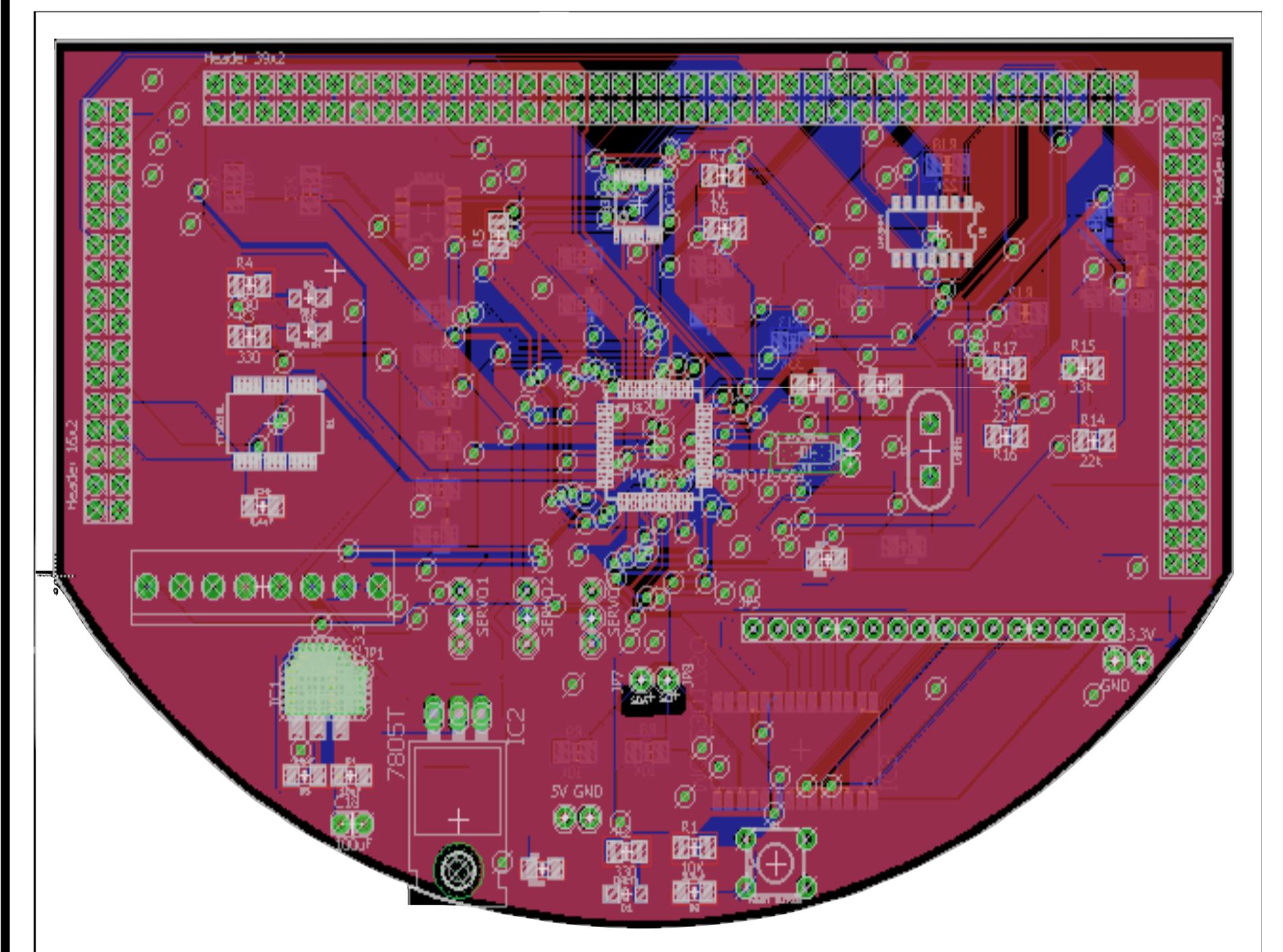
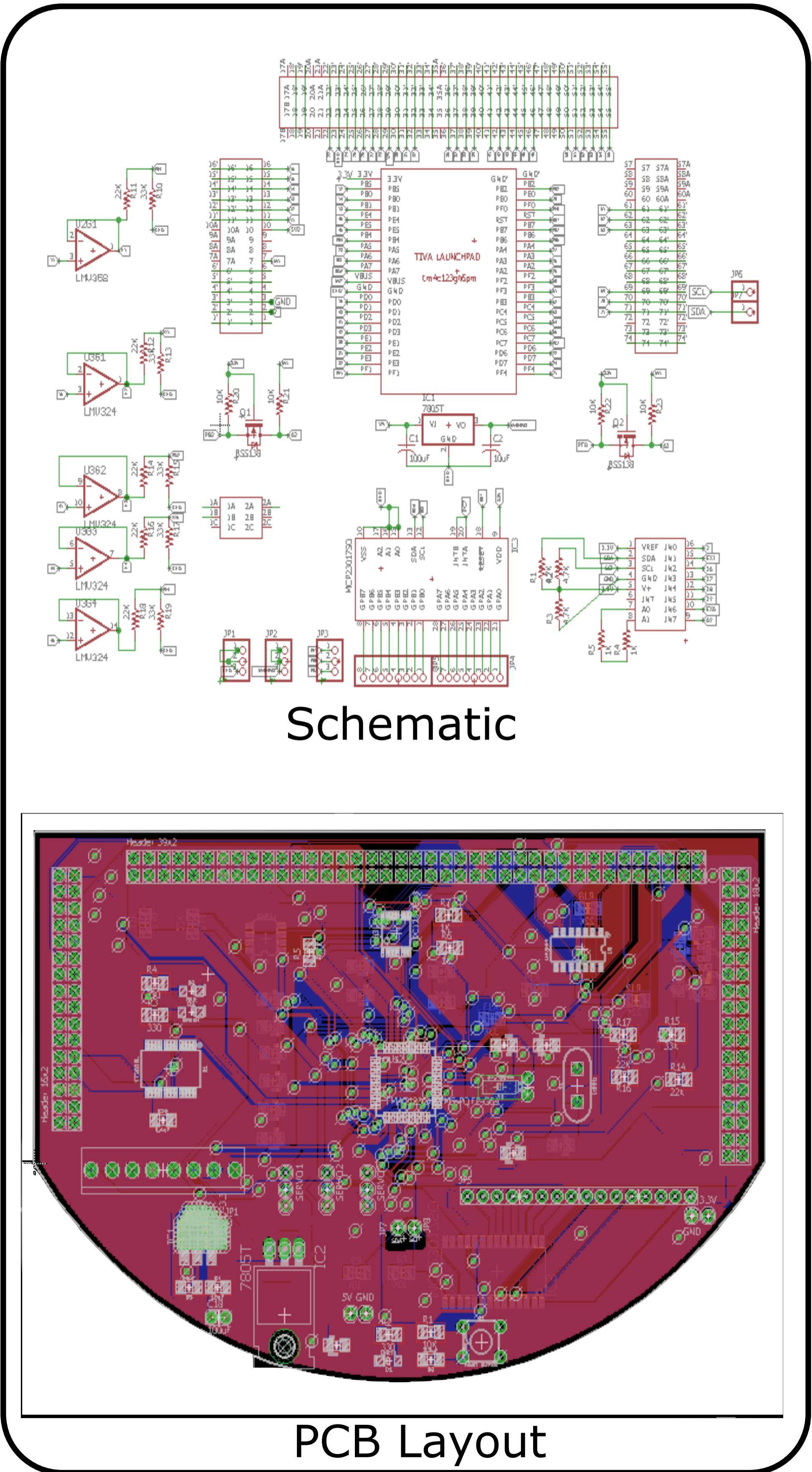
Development of TIVA based Daughter Board for Firebird V

Ayush Gaurav, Nagesh K Mentor: Piyush Manvar

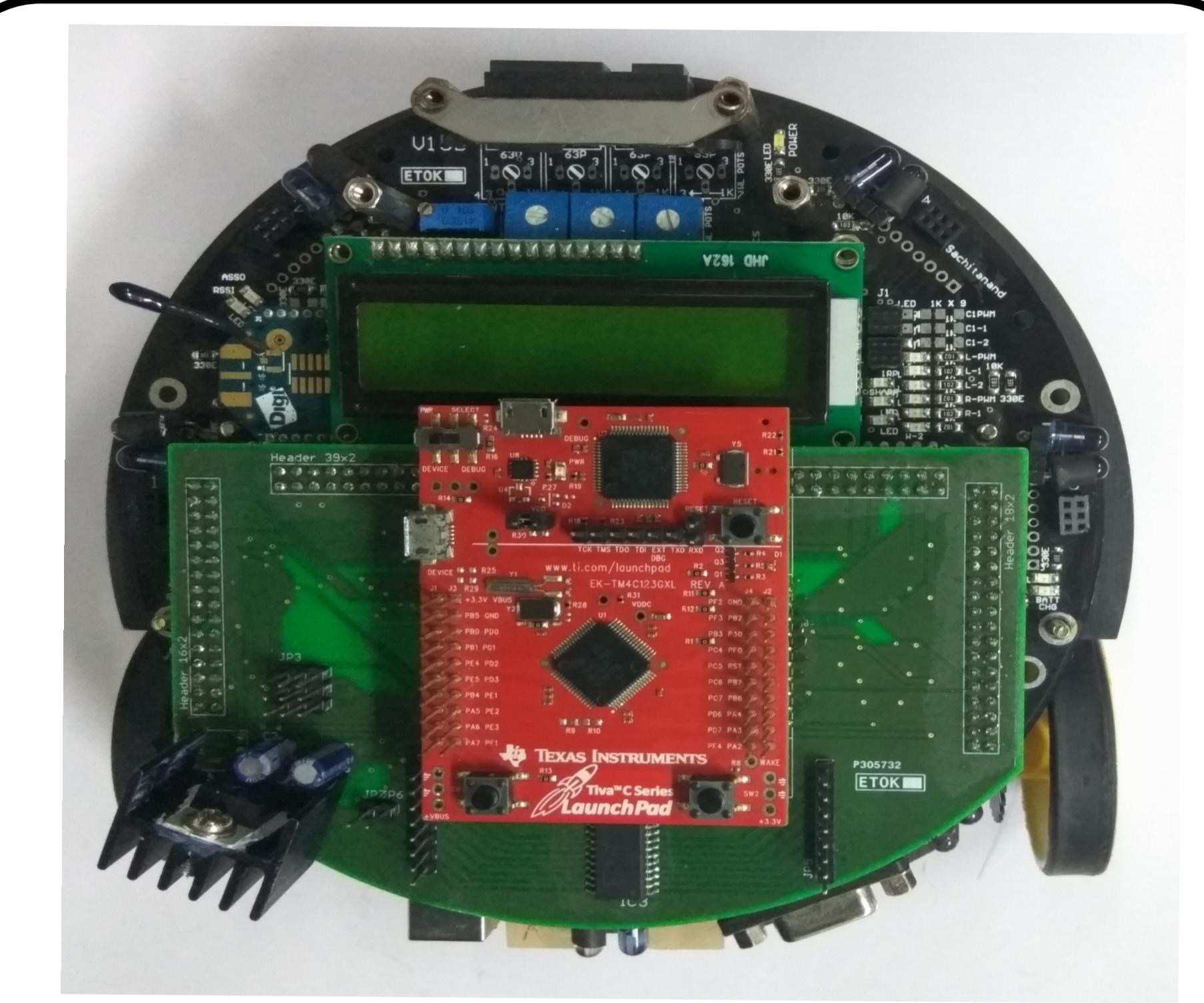


Features of TIVA based Daughter Board:

1. Three white line sensors (extendable to 7)
2. Five Sharp GP2Y0A02YK IR range sensor
3. Eight analog IR proximity sensors
4. Two position encoders
5. USB Communication
6. Wireless ZigBee Communication
7. I2C Communication
8. One available UART
9. 16 GPIO Pins with port change Interrupt



PCB Layout



Features of TM4C123GH6 Microcontroller:

1. 32 bit ARM Cortex M4 based Processor
2. Upto 80 MHz Clock
3. On board Realtime Debugger
4. Compatible with CAN Protocol
5. 16-bit SIMD vector processing unit
6. 12 Available ADC channels
7. Eight UART's
8. Two Watchdog Timers
9. Twelve General-Purpose Timer Module (GPTM)